## CLAIMS

1. A combined oil ring comprising: an oil ring formed into cross-section substantially of an I-shape that two rails are connected at a columnar portion thereof; and a coil expander, which is placed in an inner peripheral groove formed on the inner side of a periphery of the columnar portion connecting the two rails of the oil ring, and which presses the oil ring radially outward,

wherein the coil expander is formed of a shape memory alloy, and is formed of anomaly wire having rectangular cross sectional shape.

- 2. The combined oil ring according to claim 1, wherein the coil expander formed of the shape memory alloy is treated such that if a temperature of the coil expander itself is higher than a martensitic transformation temperature of the shape memory alloy, the coil expander extends in its longitudinal direction.
- 3. The combined oil ring according to claim 1 or 2, wherein a ratio of a thickness and a width of the cross sectional shape of the anomaly wire, which forms the coil expander, is in a range of 1:1 to 1:4.
- 4. A combined oil ring comprising: an oil ring formed into cross-section substantially of an I-shape that two rails are connected at a columnar portion thereof; and a coil expander, which is placed in an inner peripheral groove formed on the inner

side of a periphery of the columnar portion connecting the two rails of the oil ring, and which presses the oil ring radially outward,

wherein a width of the oil ring in an axial direction is in a range of  $0.3\ mm$  to  $3\ mm$ ,

the coil expander is formed of a shape memory alloy, and the coil expander is treated such that if a temperature of the coil expander itself is higher than a martensitic transformation temperature of the shape memory alloy, the coil expander extends in its longitudinal direction.

- 5. The combined oil ring according to claim 4, wherein the width of the oil ring in the axial direction is in a range of 1.0 mm to 3.0 mm.
- 6. The combined oil ring according to claim 4 or 5, wherein the coil expander, which is formed of the shape memory alloy, is formed by using an anomaly wire.
- 7. The combined oil ring according to claim 6, wherein a ratio of a thickness and a width of the cross sectional shape of the anomaly wire, which forms the coil expander, is in a range of 1:1 to 1:4.